

Cover Page

Signed Declaration

**Waste License
Registration Number:** W0194-02

Licensee: Advanced Environmental Solutions (AES) (Ireland) Limited

Reporting year: 2012

I Declare that;

"All the data and information presented in this report has been checked and certified as being accurate. The quality of the information is assured to meet licence requirements"

Signature



Environmental Officer

ANNUAL ENVIRONMENTAL REPORT

AES PORTLAOISE WASTE TRANSFER STATION

JANUARY 2012
THROUGH
DECEMBER 2012

Waste Licence

Registration Number: W0194-02

Licensee: Advanced Environmental Solutions
(AES) Ireland Ltd

Location of Activity: Kyletalesha
Portlaoise
County Laois

Attention: Office of Environmental Enforcement
EPA Headquarters
P.O. Box 3000
Johnstown Castle Estate
Co. Wexford

Prepared by: ANUA Environmental



REVISION CONTROL TABLE

User is Responsible for Checking the Revision Status of This Document.

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Client: Bord na Mona

Keywords: Waste Transfer Station, Annual Environmental Report (AER), waste recovery and disposal, environmental monitoring.

Abstracts: This report presents the Annual Environmental Report for AES Portlaoise Waste Transfer Station in Kyletalesha, Co. Laois to the Environmental Protection Agency. The report covers the annual reporting period of 2012.

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1.0 INTRODUCTION

The Environmental Protection Agency (EPA) issued Advanced Environmental Solutions (Ireland) Ltd. with a Waste Licence for its Waste Transfer Station at Kyletalesha, Portlaoise, Co. Laois (E245 N202) on 30th March 2007. The Waste Licence reference number is W0194-02.

The facility is currently licensed to a maximum of 99,000 tonnes of waste per annum (80,000 tonnes of Non-hazardous household waste, 3,000 tonnes of Non-hazardous industrial sludges, 5,000 tonnes of Hazardous waste (WEEE), 5,000 tonnes of C&D waste and 6,000 tonnes of sewage sludge). The site is located approximately 2km north of Portlaoise town.

In May 2007, Bord na Móna PLC acquired Advanced Environmental Solution (AES) Ireland Ltd., one of Irelands leading waste management companies, which services 5,000 commercial customers and 60,000 domestic customers. The acquisition was a key part of the Bord na Móna PLC's diversification strategy and one which tied in perfectly with the existing Bord na Móna PLC areas of operation.

AES Ireland Ltd. currently operates a network of recycling & transfer facilities throughout Leinster and further afield. These facilities are located in Navan, Co. Meath, Tullamore, Co. Offaly, Portlaoise, Co. Laois, Nenagh, Co. Tipperary and Rosslare, Co. Wexford.

ANUA Environmental was commissioned to prepare and submit the Annual Environmental Report (AER) for the facility in compliance with Condition 11.7 of the Waste Licence.

This report addresses Condition 11.7 of the waste license for the facility which states;

“The licensee shall submit to the Agency, by the 31st March each year, an AER covering the previous calendar year. This report, which shall be to the satisfaction of the Agency, shall include as a minimum the information specified in Schedule F: Annual Environmental Report of this license and shall be prepared in accordance with any relevant guidelines issued by the Agency”.

This report addresses the items listed in Schedule F: Annual Environmental Report of the Waste License for the facility. This AER covers the reporting period from 1st January 2012 to the 31st December 2012.

Note; waste acceptance at this facility ceased on the 30th September 2011.

1.1 Site Description and Activities

There was no on-site activity during the 2012 reporting period as the site ceased accepting waste on the 30th September 2011. The site is licensed (W0194-02) to accept domestic, commercial, industrial and construction waste, which may be sorted and segregated for onward recycling / recovery in accordance with the recycling potential. Waste deemed unsuitable for recycling / recovery may be segregated and compacted for disposal off-site. The site is located approximately 2km north of Portlaoise town – Figure 1.0.1.

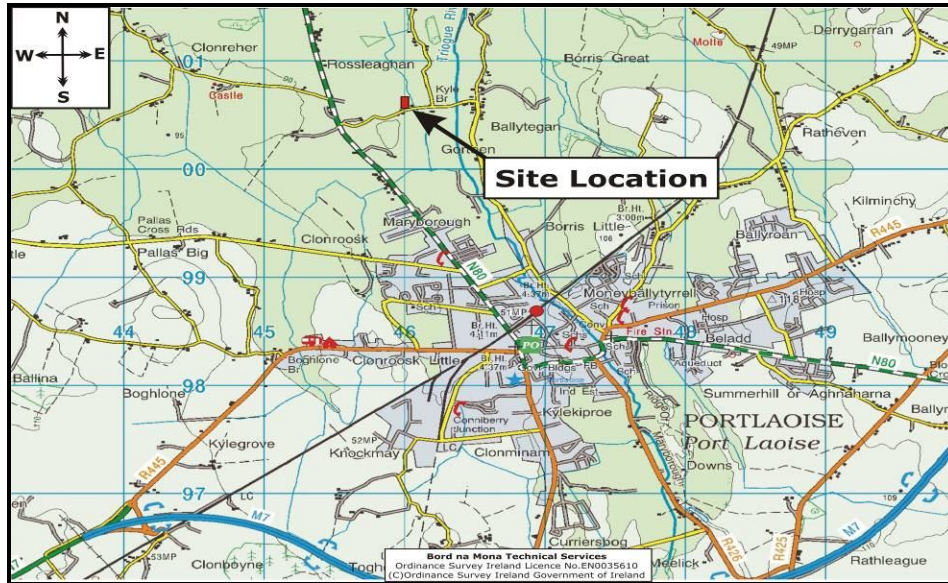


Figure 1.1 Site location map of the AES facility Kyletalesha, Portlaoise, Co. Laois.

The site location map and monitoring location maps are included in Appendix 1.

1.2 Waste Handling Procedure

There was no on-site activity during the 2012 reporting period as the site ceased accepting waste on the 30th September 2011.

2.0 EMISSIONS FROM THE FACILITY

Emissions as per Schedule B of the Waste License, W0194-02, relating to energy and the use of the proposed bio-filters are not yet applicable. Surface-water, ground-water, dust and noise monitoring results are discussed in Section 6 of this report.

There was no activity or personnel on site during 2012, therefore there was no foul water generated at the facility during 2012.

3.0 WASTE MANAGEMENT RECORD

There was no waste management record during the 2012 reporting period as the site ceased accepting waste on the 30th September 2011.

3.1 Waste Activities carried out at the Facility.

There was no waste activities carried out during the 2012 reporting period as the site ceased accepting waste on the 30th September 2011.

3.2 Waste Quantities and Composition.

There was no waste activities carried out during the 2012 reporting period as the site ceased accepting waste on the 30th September 2011.

4.0 RESOURCE AND ENERGY CONSUMPTION

4.1 Resource Consumption Summary

Resources consumed at the Kyletalesha Waste Transfer Station are recorded.

There was no road diesel or kerosene used during the reporting period.

The total electrical consumption at the site was 89,049 ESB units during the reporting period.

4.2 Energy Efficiency Audit Report Summary

To comply with Condition 7.1 of the Waste Licence an Energy Efficiency Audit Report was submitted to the EPA during 2009.

4.3 Water Consumption

During the recording period water usage on-site was not measurable as it is mains supply which is not metered. As the site was non operational during 2012, it is suspected that water usage was negligible.

4.4 Raw Materials Consumption & Waste Generation.

Not applicable.

5.0 ENVIRONMENTAL OBJECTIVES & TARGETS

5.1 Progress against Targets for 2012

Details on progress made against the Targets for 2012 are presented in Table 5.1.

Table 5.1: Progress against Targets for 2012			
Ref.	Objective	Target	Progress
1	Environmental Monitoring	Noise, Surface Water, Ground Water and Dust Monitoring	Complete
2	Review effectiveness of Nuisance Control measures	For: Litter dust, birds and vermin	Complete
3	Environmental Compliance	Review licence conditions outlined within W0194-02	Complete
4	Planning Permission	Submit an Planning Application to Laois County Council to regularise activities on-site	Complete
5	Environmental Auditing	Carrying out audits of the sites outlets to establish environmental compliance	Complete

5.2 Schedule of Objectives and Targets for 2013.

Table 5.2 Proposed Objectives & Targets for 2013				
Ref.	Objective	Target	Timescale	Respons.
1	EPA Enforcement	To comply with the EPA's Enforcement Priorities for 2013	Dec-13	Team
2	Environmental Monitoring	Noise, Surface Water, Ground Water and Dust Monitoring	Dec-13	ANUA Environmental
3	Review effectiveness of Nuisance Control measures	For: Litter dust, birds and vermin	Ongoing	Team
4	Environmental Compliance	Review licence conditions outlined within W0194-02	Ongoing	EM/PH
5	Planning Permission	Submit an Planning Application to Laois County Council to regularise activities on-site	Apr-13	Team
6	Environmental Auditing	Carrying out audits of the sites outlets to establish environmental compliance	Ongoing	EM/SG/CG
7	Vehicle Re-Routing	Re-routing of waste collection routes to improve efficiency	Dec-11	PH/COB
8	Roll out of Brown Bin	To continue the roll out of the 3 bin system	Ongoing	PH
9	Energy Efficiency	Use of split body trucks to reduce fuel consumption	Ongoing	PH
10	Integrated Management System	To maintain existing ISO14001:2004 and OHSAS 18000:2007 standards and obtain ISO9001 standard for Quality Management System	Jul-13	Team

A report on the progress against the proposed Objectives and Targets for 2013 will be presented in the AER in 2014.

6.0 SUMMARY OF ENVIRONMENTAL MONITORING

Environmental monitoring at the facility is carried out in accordance with Condition 6 and Schedule C of the Waste License, W0194-02. The following sections 6.1 to 6.3 present the results of monitoring for the year 2011.

Waste Licence W0194-02 requires the following environmental monitoring; annual noise, bi-annual ground/surface water and dust monitoring 3 times per year. AES received approval from the Agency to reduce the frequency of environmental monitoring at the site, as a result of the site closing on the 30th September 2011. The monitoring requirements are now as follows;

- 1) Noise Annually
- 2) Dust Annual
- 3) Groundwater Annual
- 4) Storm Water Annual

6.1 Noise Monitoring Report Summary

In compliance with Schedule C4 of the Waste License, W0194-02, noise monitoring at the Kyletalesha Waste Transfer Station was undertaken. Monitoring was carried out on the 13th July 2012 (Report Ref. No. ECS4178).

Noise levels were monitored at 5 monitoring locations, four boundary locations and one noise sensitive location (NSL). The noise monitoring locations are presented in Table 6.1 and are also shown in Appendix 1.

Table 6.1 Noise Monitoring Locations		
Map Reference No.	Location Type	Location
N1	Boundary	North East corner of site, directly beside the dust gauge.
N2	Boundary	North West corner of site, directly beside the dust gauge.
N3	Boundary	South East corner of site, beside the portacabin.
N4	Boundary	South West corner of site, to the right of the entrance gate.
N5	Noise Sensitive Location	Private dwelling (Approx. 500m East of site).

Table 6.2 Noise Results 13 th July 2012						
Location	Duration (mins)	Time	L _{Aeq} dB	L _A F10 dB	L _A F90 dB	L _A Fmax dB
N1	30	14:00	45	48	39	65
N2	30	12:09	47	51	40	63
N3	30	11:36	45	49	34	68
N4	30	14:32	50	49	37	72
N5 (NSL)	30	11:01	50	47	33	76

All results were within the respective day/night-time limits of 55/45 dB(A). There was no tonal noise detected at any of the monitoring locations. The AES site was not causing nuisance noise to the surrounding environs on the date and time the monitoring survey took place.

6.2 Ambient Dust Monitoring Report Summary

In compliance with Schedule C.5 of the Waste License, W0194-02, dust monitoring at the Kyletalesha Waste transfer Station was undertaken. Three dust sample jars were installed for a 28 day period; 7th Feb. – 6th Mar.

There are three dust monitoring locations on site, and are detailed in Table 6.3 below and are also shown in Appendix 1.

Table 6.3 Dust Monitoring Locations	
Monitoring Location	Description
D1	South eastern corner of the facility
D2	North western corner of facility
D4	Northern corner of the facility (beside entrance)

The results for the monitoring are presented in Table 6.4.

Table 6.4 Dust Monitoring Results (mg/m²/day) - ECS4178		
Monitoring Location	Deposition Rate (mg/m²/day)	Waste Licence Dust Deposition Limit (mg/m²/day)
D1	43	350
D2	55	350
D4	18	350

As can be seen in Table 6.4, all dust depositional results were within the Waste License Limit (350 mg/m²/day). Based upon the dust levels recorded for each monitoring location, it may be concluded that the AES facility is not causing nuisance dust emissions to the receiving environs.

6.3 Wastewater discharges to Groundwater monitoring Report Summary

In compliance with the requirements of Waste License W0194-02, an assessment of waste-water discharges following treatment prior to discharge from Kyletalesha Waste Transfer Station is required. There is one wastewater discharge monitoring location on-site, as detailed in Table 6.5 are also shown in Appendix I.

Table 6.5 Wastewater Discharges to Groundwater Monitoring Location	
Monitoring Location	Description
SE-1	Northern corner of facility

During 2010 the AES facility ceased using the Puraflow treatment tank. All waste water is now tankered off-site for final disposal. As there a no longer any emissions to groundwater, it was not possible to take the waste-water discharge sample for 2012.

6.4 Surface-water / Storm-water monitoring report summary.

In compliance with the Schedule C.2 of the Waste License, W0194-02, an assessment of surface-water emissions from Kyletalesha Waste Transfer station was undertaken on an annual basis.

Surface-water was collected from the four monitoring locations on-site as detailed in Table 6.6 and in Appendix 1.

Table 6.6 Surface-water monitoring locations	
Ref.	Description
SW-1	Located beside Knackery
SW-6	Discharge point, between SW-1 & SW-2
SW-2	Located immediately downstream of weir and discharge point
SW-4	Located downstream of AES opposite entrance

Sampling location SW-6 (Discharge Point) located midway between the Knackery and the AES facility was not monitored as the discharge pipe from the facility has been stoppered with an inflatable bung. Any waste-water from the site is now collected and tankered off site for final disposal.

Monitoring was conducted on the 14th February (Report Ref. ECS4178 Rev.1) and the results are presented in Table 6.7.

Table 6.7: - Surface-Water Monitoring Results – ECS4178 Rev.1			
Parameter	SW-1	SW-2	SW-4
pH (pH units)	7.4	7.5	7.6
Conductivity ($\mu\text{S}/\text{cm}$ @ 25°C)	2,610	2,915	890
On-Site Visual Inspection	Yellow, Some S.S	Yellow, Some S.S	Light Yellow, some S.S
Odour	Strong Odour	Strong Odour	No Odour
BOD (TCMP) (mg/l)	4	5	<2
COD (mg/l)	67	82	69
Suspended Solids (mg/l)	18	16	15
Oils, Fats and Greases (mg/l)	8	10	14
Ammonia (mg/l as N)	79	90	17
Total Nitrogen (mg/l)	85	96	23
Total Phosphorus (mg/l)	0.53	0.24	0.09

As can be seen from Table 6.7, monitoring location SW-1 located upstream of the AES facility in Kyletalesha is considerably polluted, with high levels of Conductivity (2,610 $\mu\text{S}/\text{cm}$), Ammonia (79mg/l) and Total Phosphorous (0.53mg/l).

Downstream of the AES facility (SW-4), parameters analysed for in Table 4.2 have reduced in concentration compared to that upstream at SW-1; Conductivity (2,610 \rightarrow 890 $\mu\text{S}/\text{cm}$), Ammonia (79 \rightarrow 17mg/l) and Total Phosphorous (0.53 \rightarrow 0.09mg/l).

It is therefore reasonable to conclude that the AES site is not further impacting on the stream surrounding the facility.

6.5 Tank and Pipeline Testing & Inspection Reports

In accordance with the requirements of the Waste License (W0194-02), AES is required to conduct a Bund Integrity test as stipulated under Condition 6.9;

Condition 6.9 of the Waste License states;

“The integrity and water tightness of all underground pipes, tanks, bunding structures and containers and their resistance to penetration by water or other materials carried or stored therein shall be tested and demonstrated by the licensee. This testing shall be carried out by the licensee at least once every three years and reported to the Agency on each occasion. This testing shall be carried out in accordance with any guidance published by the Agency. A written record of all integrity tests and any maintenance or remedial work arising from them shall be maintained by the licensee”

A bund test was scheduled to be performed during 2012. This event was cancelled as there was no activity on site during 2012 and therefore no storage of liquids which require protection by a bunding structure (e.g. diesel oil).

6.6 Environmental Management Programme

The Environmental Management Programme (EMP) form part of the objectives and Targets for the facility, presented in Tables 5.1 & 5.2. Specifically it is proposed for the coming year:

- To maintain continue environmental monitoring in compliance with Waste Licence W0194-02.
- To review the effectiveness of nuisance control measures; dust, birds and vermin.
- Submit a Planning Application to Laois County Council to regularise activities on-site.
- Carry out regular audits of site to ensure compliance with Licence conditions.
- To maintain existing ISO14001:2004 and OHSAS 18000:2007 standards and obtain ISO9001 standard for Quality Management System.

7.0 SITE DEVELOPMENT/INFRASTRUCTURAL WORKS

7.1 Current Infrastructure in Place

The facility is currently licensed to accept a maximum of 99,000 tonnes of waste per annum, (80, 000 tonnes of non-hazardous household waste, 3,000 tonnes of non-hazardous industrial sludges, 5,000 tonnes of hazardous waste (WEEE), 5,000 tonnes of C&D waste and 6,000 tonnes of sewage sludge).

7.2 Site Development Works during 2012 and Proposed for 2013.

There were no site development works during 2012 as the site closed on 30th September 2011. A planning application was lodged with Laois Co. Council during 2012 relating the reopening of the facility. A decision on this application is due in 2013.

8.0 ENVIRONMENTAL LIABILITIES (FINANCIAL PROVISIONS)

The environmental liabilities are those considered to be restricted to the confines of the facility, therefore, any costs incurred in addressing same will be limited to removal and safe disposal of waste remaining on-site following an emergency event (e.g. fire or spillage) or the decommissioning and closure of the site. Such environmental liabilities cover should account for the cost of the clean up and removal of the maximum amount of waste that may be stored on site at any given time.

AES and Bord na Mona (parent company) have arranged insurance to cover the liability arising from damage to property and injury to parties as a result of sudden and unforeseen environmental impairment. AES have insurance cover for Business Interruption and have adequate reserves for the cost of removing the maximum amount of waste that may be stored on-site at any given time and to ensure that said material is transported to an authorised and capable facility.

In the unlikely event of full decommissioning, financial reserves are available to allow a formal surrender of the licence ensuring that the inherent environmental safeguard associated with this regulatory process is activated.

9.0 INCIDENTS AND COMPLAINTS

9.1 Complaints Summary

The facility received no complaints during the reporting period.

9.2 Reported Incidents Summary

The facility had no notifiable incidents during the reporting period.

9.3 Accident Prevention and Emergency Response

Condition 9.3 of the Waste Licence states:

“The licensee shall ensure that a documented Accident Prevention Procedure is in place which will address the hazards on-site, particularly in relation to the prevention of accidents with a possible impact on the environment. This procedure shall be reviewed annually and updated as necessary”.

Condition 9.2 of the Waste Licence states:

“The licensee shall maintain a documented Emergency Response Procedure for the facility, which shall address any emergency situation which may originate on-site. This Procedure shall include provision for minimising the effects of any emergency on the environment. This procedure shall be reviewed annually and updated as necessary”.

The accident prevention and emergency response has been prepared for the following:

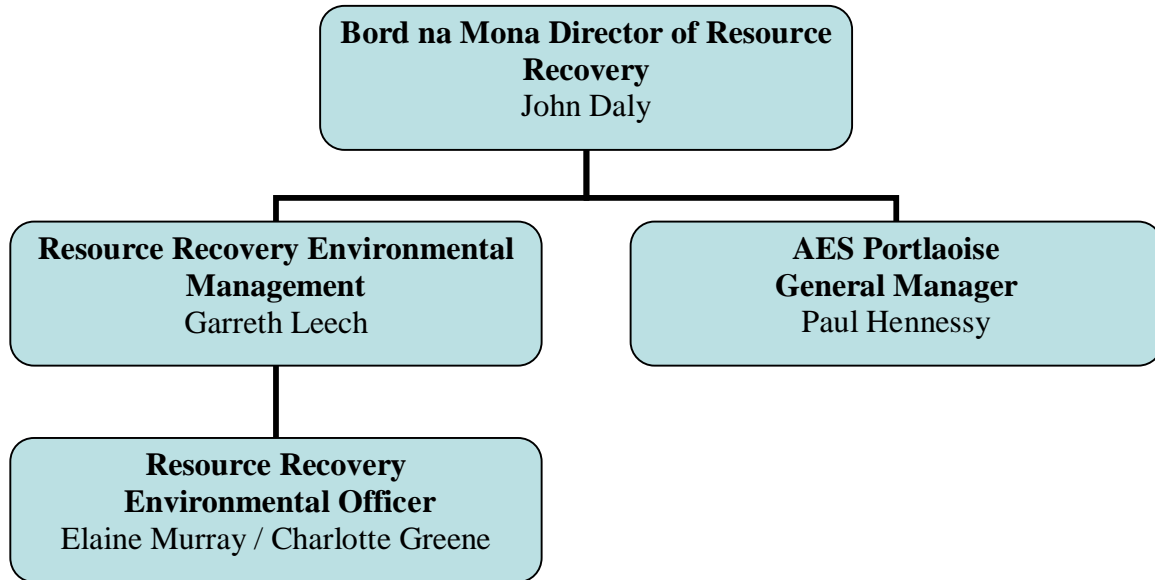
- EP-ERP-01_General Emergency Preparedness & Response.doc
- EP-ERP-02_Spill Clean Up Procedure.doc
- EP-ERP-03_Fire Explosion Procedure.doc
- EP-ERP-04_Malicious Damage Procedure.doc
- EP-ERP-05_Unforeseen Emergencies & Fugitive Emissions.doc

These documents are included in full in Appendix 2 of the 2012 AER.

10.0 FACILITY MANAGEMENT

10.1 Managing Staffing Structure

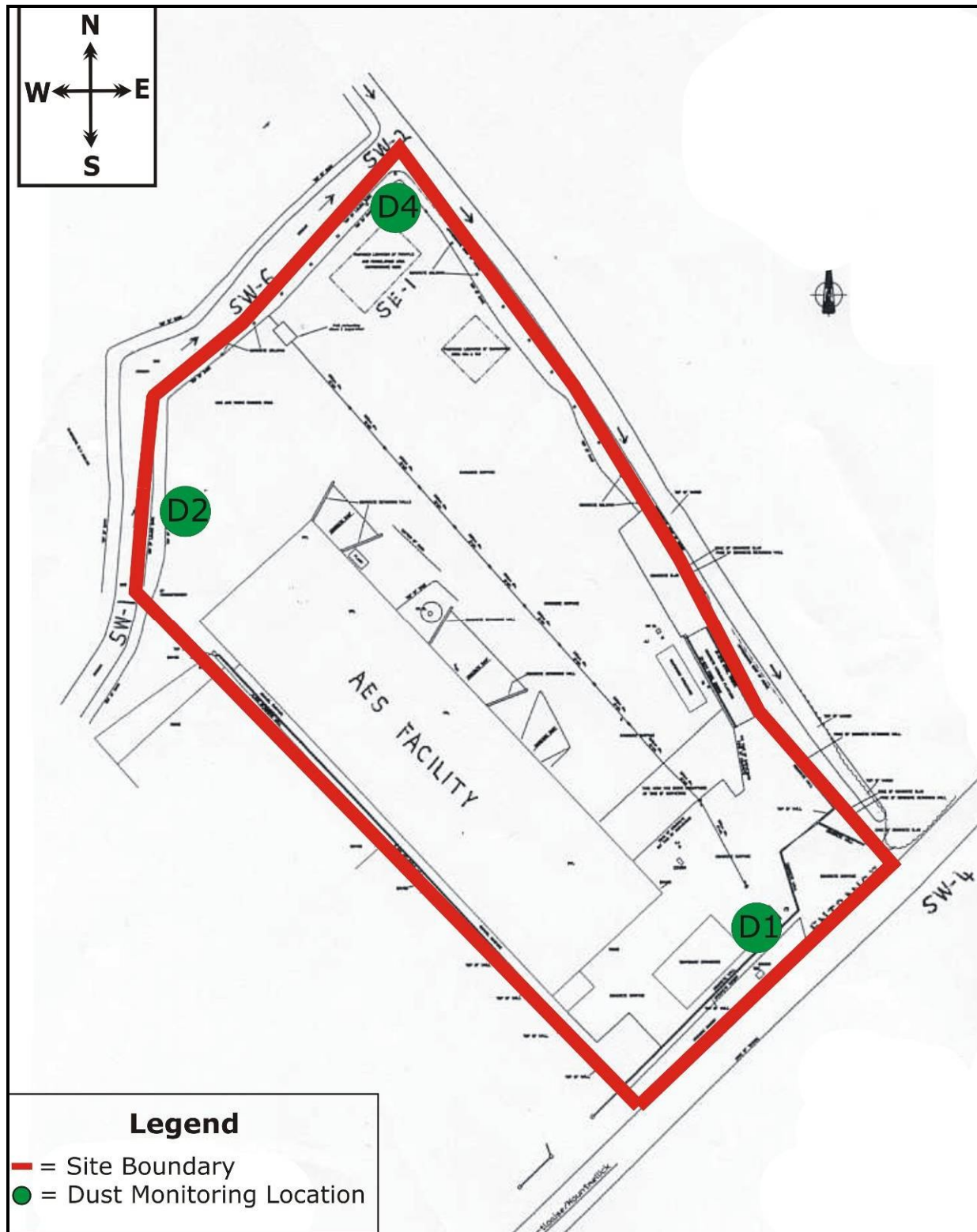
The management and staffing structure for the facility is presented in Figure 10.1

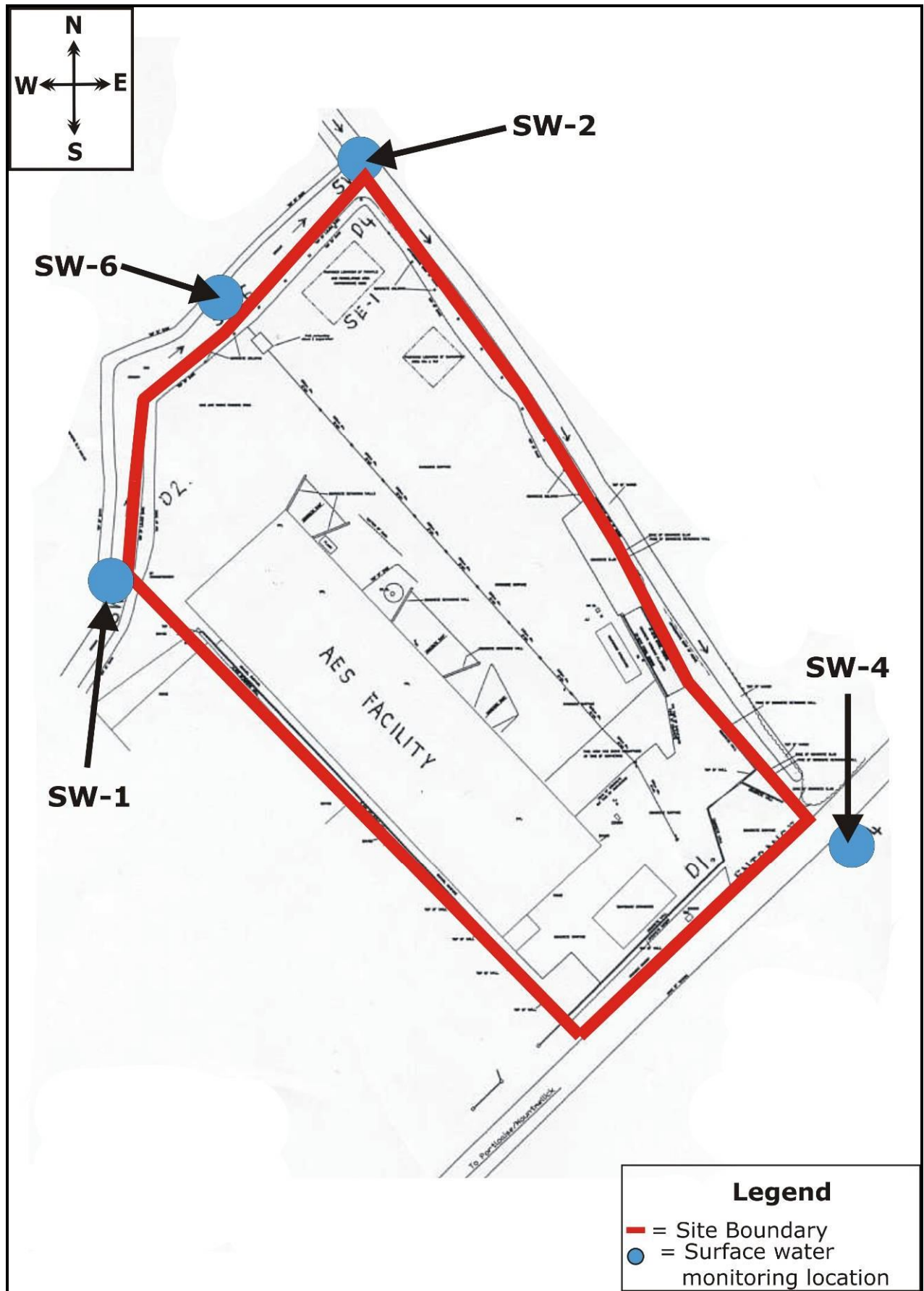


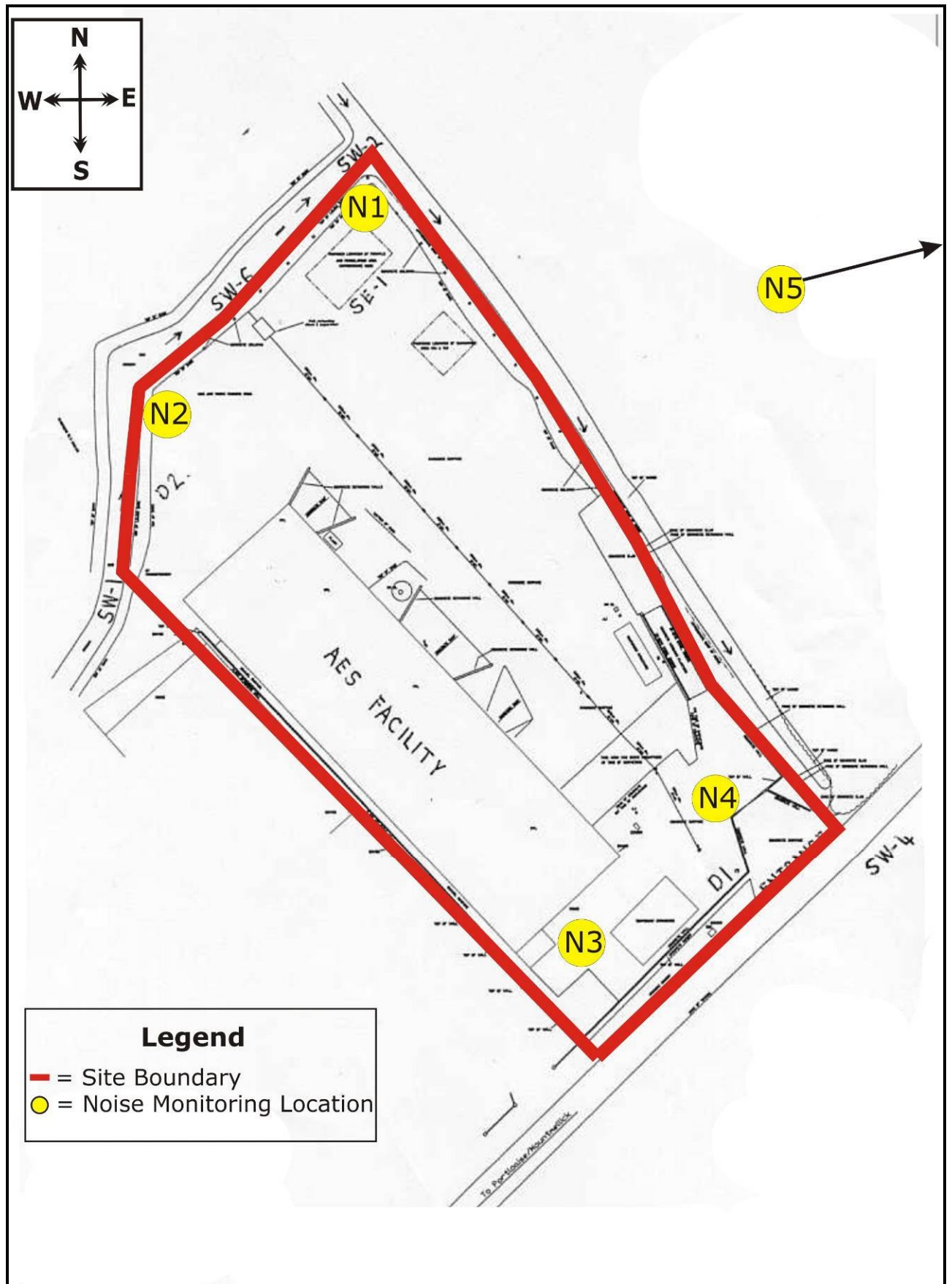
APPENDIX 1

Maps of Site Location & Monitoring Locations









APPENDIX 2

Summary of Emissions and Waste Management (PRTR)



[PRTR#: W0194 | Facility Name : Advanced Environmental Solutions (Ireland) Ltd |
 Filename : W0194_2012(1).xls | Return Year : 2012]

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[Guidance to completing the PRTR workbook](#)

AER Returns Workbook

Version 1.1.10

REFERENCE YEAR	2012
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1. FACILITY IDENTIFICATION

Parent Company Name	Advanced Environmental Solutions (Ireland) Limited
Facility Name	Advanced Environmental Solutions (Ireland) Ltd
PRTR Identification Number	W0194
Licence Number	W0194-02

Waste or IPPC Classes of Activity

No.	class name
4.2	Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes).
3.11	Blending or mixture prior to submission to any activity referred to in a preceding paragraph of this Schedule.
3.12	Repackaging prior to submission to any activity referred to in a preceding paragraph of this Schedule.
3.13	Storage prior to submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where the waste concerned is produced.
3.6	Biological treatment not referred to elsewhere in this Schedule which results in final compounds or mixtures which are disposed of by means of any activity referred to in paragraphs 1. to 10. of this Schedule.
4.11	Use of waste obtained from any activity referred to in a preceding paragraph of this Schedule.
4.13	Storage of waste intended for submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where such waste is produced.
4.3	Recycling or reclamation of metals and metal compounds.
4.4	Recycling or reclamation of other inorganic materials.
4.9	Use of any waste principally as a fuel or other means to generate energy.

Address 1	Kylealeaha & Kyleclonhobert
Address 2	Portlaoise
Address 3	County Laois
Address 4	
Country	Ireland
Coordinates of Location	-8.5582 53.8838
River Basin District	IEBC
NACE Code	3832
Main Economic Activity	Recovery of sorted materials
AER Returns Contact Name	Charlotte Greene
AER Returns Contact Email Address	charlotte.greene@bnm.ie
AER Returns Contact Position	Environmental Officer
AER Returns Contact Telephone Number	045-439492
AER Returns Contact Mobile Phone Number	087-7697485
AER Returns Contact Fax Number	
Production Volume	0.0
Production Volume Units	
Number of Installations	0
Number of Operating Hours in Year	0
Number of Employees	5
User Feedback/Comments	
Web Address	

2. PRTR CLASS ACTIVITIES

Activity Number	Activity Name
50.1	General
5(c)	Installations for the disposal of non-hazardous waste
50.1	General

3. SOLVENTS REGULATIONS (S.I. No. 543 of 2002)

Is it applicable?	
Have you been granted an exemption?	
If applicable which activity class applies (as per Schedule 2 of the regulations)?	
Is the reduction scheme compliance route being used?	

4. WASTE IMPORTED/ACCEPTED ONTO SITE

[Guidance on waste imported/accepted onto site](#)

Do you import/accept waste onto your site for on-site treatment (either recovery or disposal activities)?	
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This question is only applicable if you are an IPPC or Quarry site